IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-2. (*Canceled*)

Claim 3. (*New*) A slip ring end housing for an alternator comprising:

a casing portion having a first end, a second end and a side wall;

said first end having closed surface, said closed surface defining a plurality of apertures therethrough;

a first portion of said plurality of apertures being bolt holes for receiving bolts therein;

a second portion of said plurality of apertures being ventilation passages for allowing airflow through the casing portion;

wherein one of said ventilation passages is a window having an irregular shape for allowing maximum airflow therethrough;

and at least one of said plurality of apertures being an electrical terminal port, said electrical terminal port being defined by a substantially rectangular perimeter;

a boss defined on said first end, said boss defining a bearing wall therein;

said boss including at least three ribs periodically spaced there around for providing stabilization and support for the bearing wall;

said second end defining a mounting edge surface, said mounting edge surface having a plurality of throughbores;

wherein said mounting edge surface circumscribing an open end of said casing portion;

said side wall disposed between said first end and said second end;

said side wall defining at least one electrical connector mount; and

a rectifier mounted in said casing portion adjacent to said window.

Claim 4. (*New*) The slip ring end housing according to claim 3, said rectifier including a first heat sink, a terminal block, a second heat sink, and a plurality of diodes;

said first heat sink being mounted to one side of said terminal block;

wherein said first heat sink having a plurality of fins extending outwardly away from said terminal block, and at least two fins of said plurality of fins being substantially larger than the remaining fins;

said second heat sink being mounted to another side of said terminal block;

wherein said second heat sink having a plurality of fins extending outwardly away from said terminal block in a direction opposite said first heat sink.

Claim 5. (*New*) The slip ring end housing according to claim 4, said terminal block defining a plurality of through apertures for allowing air flow therethrough;

whereby said plurality of apertures contribute to heat dissipation.

Claim 6. (*New*) The slip ring end housing according to claim 3, said rectifier including a first set of diodes, and a second set of diodes;

said first set of diodes includes at least three pairs of diodes;

said second set of diodes includes at least three diodes;

wherein each of said at least three pairs of diodes are associated with one of said second set of diodes; and

a terminal block;

wherein said first set of diodes and said second set of diodes are mounted on said terminal block.